1. Device Name

SEP 2 0 2011

C

Trade Name:

Amsco Chimeron Small Steam Sterilizer

Models:

16, 16C, 16CS, 16S, 20, 20C, 20CS, and 20S

Common/Usual Name:

Steam Sterilizer

Classification Name:

Steam Sterilizer (21 CFR 880.6880)

Product Code FLE

#### 2. <u>Predicate Device</u>

K030789, Amsco Century Small Steam Sterilizer, product code [FLE] cleared March 26<sup>th</sup>, 2003.

#### 3. Description of Device

The Amsco Chimeron Small Steam Sterilizer models 16, 16C, 16CS, 16S, 20, 20C, 20CS, and 20S are designed for sterilization of heat and moisture-stable materials used in healthcare facilities and are available in two configurations:

- Prevacuum (Models 16, 16C and 20, 20C) are equipped with Prevacuum, Gravity, Liquid, Leak Test and DART (Bowie-Dick) cycles.
- Steam Flush Pressure-Pulse (SFPP) (Models 16CS, 16S and 20CS, 20CS) are equipped with SFPP, Prevacuum, Gravity, Liquid, Leak Test and DART (Bowie-Dick) cycles.

The chamber sizes of the proposed Amsco Chimeron Small Steam Sterilizer Models are as follows:

- 16" x 16" x 26" (Models 16, 16C, 16CS, and 16S)
- 20" x 20" x 38" (Models 20, 20C, 20CS, and 20S)

#### 4. Intended Use

The Amsco Chimeron Small Steam Sterilizer Models 16, 16C, 16CS, 16S, 20, 20C, 20CS, and 20S are designed for sterilization of heat and moisture-stable materials used in healthcare facilities and are available in the following configurations:

Models 16, 16C, 20, 20C:

*Prevacuum* – equipped with Prevacuum, Gravity, Liquid, Leak Test and DART (Bowie-Dick) cycles.

Models 16CS, 16S, 20CS, and 20S:
 Steam Flush Pressure-Pulse (SFPP) – equipped with SFPP, Prevacuum, Gravity,
 Liquid, Leak Test and DART (Bowie-Dick) cycles.

The Amsco Chimeron Small *Prevacuum* Steam Sterilizers (Models 16, 16C, 20, and 20C) are equipped with the following factory-validated sterilization cycles (Table 5-1):

Table 5-1

Cycles * *	Sterilize Temperature				Recommended Load
Prevac	270°F (132°C)	4 minutes	20 minutes	Yes	Fabric Packs. Refer to Table 5-3 for recommended quantities.
Prevac	270°F (132°C)	4 minutes	30 minutes	Yes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Prevac	270°F (132°C)	4 minutes	5 minutes	No	Single Fabric Pack
Prevac	275°F (135°C)	3 minutes	30 minutes	Yes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Prevac (Immediate Use)	270°F (132°C)	4 minutes	1 minutes	Yes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	15 minutes	No	Fabric Packs. Refer to Table 5-3 for recommended quantities.

# STERIS ABBREVIATED 510(k) PREMARKET NOTIFICATION SUMMARY Amsco Chimeron Small Steam Sterilizer

Gravity	270°F	15	30	No	Double wrapped
	(132°C)	minutes	minutes		instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	30 minutes	No	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity	270°F (132°C)	25 minutes	15 minutes	No	Fabric Packs. Refer to Table 5-3 for recommended quantities.
Gravity (Immediate Use)	270°F (132°C)	3 minutes	1 minutes	Yes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, non-porous load, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity (Immediate Use)	270°F (132°C)	minutes	·I minutes	Yes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, non-porous load, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Liquid	250°F (121°C)	45 minutes	N/A	No	Validated with 3 1000ml bottles. Refer to Table 5-4 for recommended full load quantities.
DART Warm- Up	270°F (132°C)	3 minutes	1 minute	Yes	N/A

DART	270°F (132°C)	3 ½ minutes	1 minute	Yes	Bowie-Dick Test Pack, DART Test Pack
Leak Test	N/A	N/A	N/A	Yes	N/A

<sup>\*</sup>The liquid cycle is for non-patient contact use only.

The Amsco Chimeron Small Steam Flush Pressure-Pulse (SFPP) Sterilizers (Models 16CS, 16S, 20CS, and 20S) are equipped with the following factory-validated sterilization cycles (Table 5-2):

Table 5-2

Cycles ::	Steriliże Temperature	Sterilizes Time	Dry Time	Factory Default	Recommended Load
SFPP	270°F (132°C)	4 minutes	30 minutes	Yes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
SFPP	270°F (132°C)	4 minutes	20 minutes	Yes	Fabric Packs. Refer to Table 5-3 for recommended quantities.
SFPP	275°F (135°C)	3 minutes	30 minutes	Yes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
SFPP	270°F (132°C)	4 minutes	5 minutes	No	Single Fabric Pack
Prevac	270°F (132°C)	4 minutes	20 minutes	No	Fabric Packs.  Refer to Table 5-3  for recommended quantities.

SECvcles Control	Sterilize	Sterilizer	Dry Time	Factory	Recommended 3
	Temperature				Load Car
Prevac	270°F (132°C)	4 minutes	30 minutes	No	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for
					recommended quantities.
Prevac	270°F (132°C)	4 minutes	5 minutes	No	Single Fabric Pack
Prevac	275°F (135°C)	3 minutes	30 minutes	No	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Prevac (Immediate Use)	270°F (132°C)	4 minutes	I minutes	No	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	15 minutes	No	Fabric Packs. Refer to Table 5-3 for recommended quantities.
Gravity	270°F (132°C)	15 minutes	30 minutes	No ·	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.

## STERIS ABBREVIATED 510(k) PREMARKET NOTIFICATION SUMMARY Amsco Chimeron Small Steam Sterilizer

Cycles 1	Sterilize / Femperatures		Dry Time	Factory	Recommended
Gravity	250°F (121°C)	30 minutes	30 minutes	No :	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity	270°F (132°C)	25 minutes	15 minutes	No .	Fabric Packs. Refer to Table 5-3 for recommended quantities.
Gravity (Immediate Use)	270°F (132°C)	3 minutes	1 minutes	Yes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, non-porous load, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.
Gravity (Immediate Use)	270°F (132°C)	10 minutes	1 minutes	Yes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, non-porous load, maximum weight 25 lbs (11.3 kg) each. Refer to Table 5-3 for recommended quantities.

Gycles	Sterilize :- Temperature	Sterilize	Dry Time	Factory Default	Recommended Load
Liquid	250°F (121°C)	45 minutes	N/A	No	Validated with 3 1000ml bottles. Refer to Table 5-4 for recommended full load quantities.
DART Warm-Up	270°F (132°C)	3 minutes	1 minute	Yes	N/A
DART	270°F (132°C)	3 ½ minutes	I minute	Yes	Bowie-Dick Test Pack, DART Test Pack
Leak Test	N/A	N/A	N/A	Yes	N/A

<sup>\*</sup>The liquid cycle is for non-patient contact use only.

The following table lists STERIS's recommended loads by sterilizer size:

Table 5-3
Amsco Chimeron Small Steam
Sterilizers recommended loads per sterilizer size

Sterilizer Size	Wrapped Instrument Y	Fabric Packs
16" x 16" x 26"	2	4
20" x 20" x 38"	3	6

The following table is a guideline for liquid cycle processing:

Table 5-4
Amsco Chimeron Small Steam
Sterilizers Liquid Cycle Guideline

Sterilizers Size	Number of Containers for full	Number of Containers for validation	Volume of Liquid In One Container	Minimum Recommended Sterilize Time at 250°F (121°C)
16" x 16" x 26"	15	3	1000 ml	45 minutes
20" x 20" x 38"	32	3	1000 ml	45 minutes

<sup>\*</sup>The liquid cycle is for non-patient contact use only.

### 5. Description of Safety and Substantial Equivalence

A summary of the technological characteristics of the device subject of this premarket notification in comparison to those of the predicate devices is included in Table 5-1.

Table 5-1
Summary of the Proposed and predicate Devices
Technological Characteristics

General Sterilizer Features	Amsco Chimeron Small Steam Sterilizer (All Models Included unless Specified)	Amsco Century Small Steam Sterilizer (K030789)
Intended Use	A steam sterilizer intended for sterilization of non-porous and porous, heat- and moisture-stable materials in healthcare facilities.	A steam sterilizer intended for sterilization of non-porous and porous, heat- and moisture-stable materials in healthcare facilities.
Operating Principle	Steam is the sterilizing agent.	Steam is the sterilizing agent.
Sterilization Cycles Offered	Prevac Gravity SFPP (Models 16CS, 16S, 20CS, and 20S Only) Liquid	Prevac Gravity
Chamber Sizes	16" x 16" x 26" 16" x 16" x 38"	16" x 16" x 26" 16" x 16" x 38"
Chamber Door	Type 316L stainless steel Vertical Sliding (26"x26")	Type 316L stainless steel Vertical Sliding (26"x26")
Shell Assembly	Type 316L stainless steel ASME certified	Type 316L stainless steel ASME certified
Control Technology	Embedded Controller Touch Screen 320 x 240 Pixel Display Ink on Paper Printer	Embedded Controller Touch Screen 320 x 240 Pixel Display Ink on Paper Printer
Process Monitors	Chamber Transducer Dual Element Chamber Drain Sensor	Chamber Transducer Single Element Chamber Drain Sensor
Safety Devices	Pressure Relief Valve Chamber Float Switch Emergency Stop Switch	Pressure Relief Valve Chamber Float Switch Emergency Stop Switch

#### **Effectiveness**

Effectiveness of sterilizer function and exposure time recommendations was demonstrated by complete kill of biological indicators and by verifying an appropriate safety factor or sterility assurance level (SAL) of at least 10<sup>-6</sup> probability of survival. STERIS validates its sterilization cycles using recommended practices, standards and guidelines developed by independent organizations such as the Association for the Advancement of Medical Instrumentation (AAMI). The Amsco Chimeron Steam Sterilizers have been validated to meet the requirements of ANSI/AAMI ST8:2008, December 2008.

The results of the Amsco Chimeron Steam Sterilizer verification studies demonstrate that the sterilizers perform as intended. The results are summarized as follows:

- Empty chamber testing was performed as described in Section 5.4.2.5 of ANSI/AAMI-ST8, for the Prevac, Gravity, Liquid and SFPP cycles. These cycles demonstrated that the sterilizer is capable of providing steady state thermal conditions within the chamber that are consistent with the predicted sterility assurance level (SAL) in the load. The sterilizer meets the requirements of Sections 4.4.2 of ANSI/AAMI-ST8.
- All SFPP cycles were validated using the fabric test pack, described in Section 5.5.2.1 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.2 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> through achievement of a time-at-temperature sufficient to produce an F<sub>0</sub> value of at least 12, moisture retention of less than 3% increase in presterilization test pack weight, and no evidence of wet spots.
- All SFPP cycles were validated using full load instrument trays, described in 5.5.4.1 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.4 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> using half-cycle cycle analysis, moisture retention of less than 20% increase in presterilization weight of the towel, and no evidence of wet spots on the outer wrapper.
- All GRAVITY cycles were validated using the fabric test pack, described in Section 5.5.2.1 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.2 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> through achievement of a time-at-temperature sufficient to produce an F<sub>0</sub> value of at least 12, moisture retention of less than 3% increase in presterilization test pack weight, and no evidence of wet spots.
- All GRAVITY cycles were validated using full load instrument trays, described in 5.5.4.1 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.4

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- ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> using half-cycle cycle analysis, moisture retention of less than 20% increase in presterilization weight of the towel, and no evidence of wet spots on the outer wrapper.
- All Immediate Use (Short or Abbreviated) GRAVITY cycles were validated using both a single, nonporous instrument weighing no more than 100g in an otherwise empty, unwrapped instrument tray and a full, non-porous load of unwrapped instrument trays as described in 5.5.5.1.2 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.5 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> using half-cycle cycle analysis.
- All PREVAC cycles were validated using the fabric test pack, described in Section 5.5.2.1 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.2 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> through achievement of a time-at-temperature sufficient to produce an F<sub>0</sub> value of at least 12, moisture retention of less than 3% increase in presterilization test pack weight, and exhibited no wet spots.
- All PREVAC cycles were validated using full load instrument trays, described in 5.5.4.1 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.4 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> using half-cycle analysis, moisture retention of less than 20% increase in presterilization weight of the towel, and no evidence of wet spots on the outer wrapper.
- All Immediate Use (Short or Abbreviated) PREVAC cycles were validated using both a single, nonporous instrument weighing no more than 100g in an otherwise empty, unwrapped instrument tray and a full, non-porous load of unwrapped instrument trays, described in 5.5.5.1.2 of ANSI/AAMI-ST8, and were qualified according to Section 5.5.5 ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> using half-cycle cycle analysis.
- All LIQUID cycles were validated using three 1,000 ml flasks, described in Section 5.5.3.1 of the ANSI/AAMI-ST8, and were qualified according to Section 5.5.3 of ANSI/AAMI-ST8. These cycles demonstrated a sterility assurance level of at least 10<sup>-6</sup> through achievement of a time-at-temperature sufficient to produce an F<sub>0</sub> value of at least 12, water loss not exceeding 50 ml, and automatic sealing of the flask closure.
- The DART cycle was validated using the Bowie-Dick Test Pack, as described in 5.6.1.1 of the ANSI/AAMI-ST8, was qualified according to Section 5.6.1 of the ANSI/AAMI-ST8, and demonstrated a uniform color change throughout the test sheet. The DART cycle uses the same dynamic air removal routines as the 270°F Prevac cycle.
- The software validation for the cycle operation was performed according to FDA's moderate level of concern recommendations provided in the document "Guidance for the Content for Premarket Submissions for Software Contained in Medical Devices (05/11/05)."

#### Safety

STERIS sterilizers including the Amsco Chimeron Steam Sterilizers have been designed, constructed and tested to meet the safety and performance requirements of various national safety codes and standards. The Amsco Chimeron Steam Sterilizers comply with the following requirements:

- ANSI/UL 61010-1 2<sup>nd</sup> Edition (7/22/2005) "Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 1 General Requirements.
- CAN/CSA C22.2 No. 61010-1 2<sup>nd</sup> Edition (7/12/2004) "Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use Part 1 General Requirements".
- UL 61010A-2-041 1<sup>st</sup> Edition (3/27/2002) "Particular Requirements for Autoclaves Using Steam for Treatment of Medical Materials and for Laboratory Processes"
- CAN/CSA C22.2 No 1010.2.041 (R2004) "Particular Requirements for Autoclaves Using Steam for Treatment of Medical Materials and for Laboratory Processes".
- ASME Boiler Pressure Vessel Code, Section VIII (Division 1) (7/1/2007)

#### Hazards - Failure of Performance

Failure of the sterilization process can lead to incidence of cross contamination, the transmission of potentially infectious organisms from one infected person to another who was not otherwise infected prior to the incident.

To avoid failure, the user must ensure that the materials, instruments and devices to be sterilized are thoroughly cleaned, the manufacturer's instructions for use are followed, the cycle to be used for each type of sterilizer load has been validated, the sterilizer has been maintained in accordance with the sterilizer manufacturer's recommended maintenance schedule and is operating properly, and each sterilizer load is monitored with available and validated biological and chemical sterilization process indicators.

The technology designed into STERIS steam sterilizers including the Amsco Chimeron Steam Sterilizers provide control safeguards that abort the cycle and give appropriate signals, alerts and warnings when required conditions have not been met or when a malfunction occurs.

### STERIS ABBREVIATED 510(k) PREMARKET NOTIFICATION SUMMARY Amsco Chimeron Small Steam Sterilizer

#### Conclusion

The Amsco Chimeron Small Steam Sterilizer has been validated to meet the requirements of ANSI/AAMI ST8:2008, December 4, 2008.

The results of the Amsco Chimeron Small Steam Sterilizer validation studies demonstrate that the sterilizer performs as intended.

Based on the information provided in this premarket notification, it can be concluded that the Amsco Chimeron Small Steam Sterilizer is substantially equivalent to the predicate device and is safe and effective when used as intended.







Food and Drug Administration 10903 New Hampshire Avenue Document Control Room – WO66-G609 Silver Spring, MD 20993-0002

Mr. Robert F. Sullivan
Senior Director FDA Regulatory Affairs
STERIS Corporation
5960 Heisley Road
Mentor, Ohio 44060

NOV 17 2011

Re: K111223

Trade/Device Name: Amsco Chimeron Small Steam Sterilizer

Regulation Number: 21 CFR 880.6880 Regulation Name: Steam Sterilizer

Regulatory Class: II Product Code: FLE Dated: August 24, 2011 Received: August 25, 2011

Dear Mr. Sullivan:

This letter corrects our substantially equivalent letter of September 20, 2011.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm">http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm</a> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <a href="http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm">http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm</a> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <a href="http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm">http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm</a>.

Sincerely yours,

Anthony D. Watson, B.S., M.S., M.B.A.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and Radiological Health

#### Indications for Use

510(k) Number (if known):

K111223

Device Name:

Amsco Chimeron Small Steam Sterilizer

Indications For Use:

The Amsco Chimeron Small Steam Sterilizer models 16, 16C, 16CS, 16S, 20, 20C, 20CS, and 20S are designed for sterilization of heat and moisture-stable materials used in healthcare facilities and are available in two configurations:

- Prevacuum (Models 16, 16C and 20, 20C) are equipped with Prevacuum, Gravity, Liquid, Leak Test and DART (Bowie-Dick) cycles.
- Steam Flush Pressure-Pulse (SFPP) (Models 16CS, 16S and 20CS, 20S) are equipped with SFPP, Prevacuum, Gravity, Liquid, Leak Test and DART (Bowie-Dick) cycles.

The Amsco Chimeron Small *Prevacuum* Steam Sterilizer is equipped with the following factory-programmed sterilization cycles and cycle values (Table 4-1):

Table 4-1.

Amsco Chimeron Small Prevacuum Steam Sterilizer Models 16, 16, 20, 20C factory-validated sterilization cycles and cycle values

	validated sterrization cycles and cycle values							
Cycles	Stērilize Temperature	Sterilize	Dry Time	Recommended Load				
WAY THE		W 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a section					
Prevac	270°F (132°C)	4 minutes	20 minutes	Fabric Packs. Refer to				
				Table 4-3 for recommended				
				quantities				
Prevac	270°F (132°C)	4, minutes	30 minutes	Double wrapped instrument				
		1		trays, maximum weight 25				
		•		lbs (11.3 kg) each and				
	1			Fabric Packs. Refer to				
				Table 4-3 for recommended				
				quantities.				
Prevac	270°F (132°C)	4 minutes	5 minutes	Single Fabric Pack				
Prevac	275°F (135°C)	3 minutes	30 minutes	Double wrapped instrument				
	, ,			trays, maximum weight 25				
				lbs (11.3 kg) each. Refer to				
				Table 4-3 for recommended				
				quantities.				

Çyclese (	Sterilize	Sterilize	Dry Time	Recommended Load.
Prevac (Immediate Use)	270°F (132°C)	4 minutes	I minutes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	15 minutes	Fabric Packs. Refer to Table 4-3 for recommended quantities.
Gravity	270°F (132°C)	15 minutes	30 minutes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	30 minutes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity	270°F (132°C)	25 minutes	15 minutes	Fabric Packs. Refer to Table 4-3 for recommended quantities.
Gravity (Immediate Use)	270°F (132°C)	3 minutes	1 minutes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, non-porous load, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity (Immediate Use)	270°F (132°C)	10 minutes	1 minutes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, non-porous load, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.

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Cycles S	#Sterilize Temperature	The state of the s	Dry Timer	Recommended Load
Liquid	250°F (121°C)	45 minutes	N/A	Validated with 3 1000ml bottles. Refer to Table 4-4 for recommended full load quantities.
DART Warm-Up	270°F (132°C)	3 minutes	1 minute	N/A
DART	270°F (132°C)	3 ½ minutes	1 minute	Bowie-Dick Test Pack, DART Test Pack
Leak Test	N/A	N/A	N/A	N/A

<sup>\*</sup>The liquid cycle is for non-patient contact use only.

The Amsco Chimeron Small Steam Flush Pressure-Pulse (SFPP) Sterilizer is equipped with the following factory-programmed sterilization cycles and cycle values (Table 4-2):

Table 4-2.

Amsco Chimeron Small Steam Flush Pressure-Pulse (SFPP)Sterilizer Models 16S, 16CS, 20S, 20CS factory-validated sterilization cycles and cycle values

Cycles &	KAN Sterilizé	Sterilize :	Dry Time	Recommended Load
L. CERRANGE AND THE PASK AL	Temperature	Time		
SFPP	270°F (132°C)	4 minutes	30 minutes	Double wrapped
				instrument trays,
				maximum weight 25 lbs
				(11.3 kg) each and Fabric
				Packs. Refer to Table 4-3
			•	for recommended
				quantities.
SFPP	270°F (132°C)	4 minutes	20 minutes	Fabric Packs. Refer to
				Table 4-3 for
				recommended quantities.
SFPP	275°F (135°C)	3 minutes	30 minutes	Double wrapped
				instrument trays,
		1		maximum weight 25 lbs
				(11.3 kg) each. Refer to
				Table 4-3 for
OFFIN		4	<u> </u>	recommended quantities.
SFPP	270°F (132°C)	4 minutes	5 minutes	Single Fabric Pack
	02002 (12000)		00	E-b-i- D- b D-C
Prevac	270°F (132°C)	4 minutes	20 minutes	Fabric Packs. Refer to
				Table 4-3 for
L			<u> </u>	recommended quantities.

€ %€ÿclês \	Sterilize	Sterilize	Dry Time	Recommended Load
Prevac	270°F (132°C)	4 minutes	30 minutes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each and Fabric Packs. Refer to Table 4-3 for recommended quantities.
Prevac	270°F (132°C)	4 minutes	5 minutes	Single Fabric Pack
Prevac	275°F (135°C)	3 minutes	30 minutes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Prevac (Immediate Use)	270°F (132°C)	4 minutes	1 minutes	Unwrapped instrument tray with a single instrument or multiple unwrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	15 minutes	Fabric Packs. Refer to Table 4-3 for recommended quantities.
Gravity	270°F (132°C)	15 minutes	30 minutes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity	250°F (121°C)	30 minutes	30 minutes	Double wrapped instrument trays, maximum weight 25 lbs (11.3 kg) each. Refer to Table 4-3 for recommended quantities.
Gravity	270°F (132°C)	25 minutes	15 minutes	Fabric Packs. Refer to Table 4-3 for recommended quantities.

<b>学</b> Gycles 数	Sterilize	Sterilize	Dry Time	Recommended Load
	7 200 1 210 270 441	the farmer of the same of the		
Gravity	270°F (132°C)	3 minutes	1 minutes	Unwrapped instrument
(Immediate		·		tray with a single
Use)				instrument or multiple
				unwrapped instrument
				trays, non-porous load,
				maximum weight 25 lbs
				(11.3 kg) each. Refer to
				Table 4-3 for
				recommended quantities.
Gravity	270°F (132°C)	10 minutes	1 minutes	Unwrapped instrument
(Immediate				tray with a single
Use)				instrument or multiple
				unwrapped instrument
			. }	trays, non-porous load,
				maximum weight 25 lbs
				(11.3 kg) each. Refer to
•				Table 4-3 for
Yimaid	2509E (1219C)	45	27/4	recommended quantities.
Liquid	250°F (121°C)	45 minutes	N/A	Validated with 3 1000ml
				bottles. Refer to Table 4-4
				for recommended full load
DART	270°F (132°C)	3 minutes	1 minutė	quantities.
Warm-Up	210 F (132 C)	5 immutes	i minute	N/A
DART	270°F (132°C)	3 ½ minutes	1 minute	Powie Diele Test Dest
2,31(1	270 1 (132 C)	J /2 minutes		Bowie-Dick Test Pack, DART Test Pack
Leak Test	.N/A	N/A	N/A	N/A
Louis 100t	·4 1/ 3 h	11/12	17/73	IAV

<sup>\*</sup>The liquid cycle is for non-patient contact use only.

The following table lists STERIS's recommended loads by sterilizer size:

Table 4-3
Amsco Chimeron Small Steam
Sterilizer recommended loads per sterilizer size

Sterilizer Size AS	Wrapped Instrument	MANAGE AND STREET OF THE
	Travel 5	- Plaufic Facks
16" x 16" x 26"	2.4.6.4.4.2.4.2.4.1.1.4.2.2.2.4.4.4.2.4.2.4.4.4.4	
		4
20" x 20" x 38"	3	6

The following table is a guideline for liquid cycle processing:

Table 4-4
Amsco Chimeron Small Steam
Sterilizer Liquid Cycle Guideline

Sterilizer Size	Number of Containers for full	Number of Containers of Validation	Volume of Eiguid In One Container	Minimum Recommended Sterilize Time at 250°F (121°C)
16" x 16" x 26"	15	3	1000 ml	45 minutes
20" x 20" x 38"	32	3	1000 ml	45 minutes

<sup>\*</sup>The liquid cycle is for non-patient contact use only.

The Amsco Chimeron Small Steam Sterilizer is offered in the following chamber sizes:

- 16" x 16" x 26" (Models 16, 16C, 16CS, and 16S)
- 20" x 20" x 38" (Models 20, 20C, 20CS, and 20S)

Division Sign-Off)

Prescription Use (Part 21 CFR 801 Subpart D)	AND/OR	Over-The-Counter UseX(21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BE PAGE IF NEEDED)	ELOW THIS LI	NE-CONTINUE ON ANOTHER
A 1	1	evice Evaluation (ODE)

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